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ABSTRACT OF THE DISCLOSURE

A power supply controller having a multi-function terminal. In one embodiment, a power supply controller for switched mode power supply includes a drain terminal, a source terminal, a control terminal and a multi-

5 function terminal. The multi-function terminal may be configured in a plurality of ways providing any one or some of a plurality of functions including on/off control, external current limit adjustments, under-voltage detection, over-voltage detection and maximum duty cycle adjustment.

The operation of the multi-function terminal varies depending on whether

10 a positive or negative current flows through the multi-function terminal. A short-circuit to ground from the multi-function terminal enables the power supply controller. A short-circuit to a supply voltage from the multi-

function terminal disables the power supply controller. The current limit of an internal power switch of the power supply controller may be adjusted

15 by externally setting a negative current from the multi-function terminal.

The multi-function terminal may also be coupled to the input DC line voltage of the power supply through a resistance to detect an under-voltage condition, an over-voltage condition and/or adjust the maximum duty cycle of power supply controller. Synchronization of the oscillator of

20 the power supply controller may also be realized by switching the multi-function terminal to power or ground at the desired times.